

## Table ENG-3. - Building Site Development

Giles County, Virginia

The information in this table indicates the dominant soil condition, but does not eliminate the need for onsite investigation. The numbers in the value column range from 0.01 to 1.00. The larger the value, the greater the potential limitation. Limiting features in this report are limited to the top 5 limitations. Additional limitations may exist.

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
1B: Allegheny	85	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding Slope	1.00 0.13
1C: Allegheny	95	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
2D: Berks	90	Very limited Slope Depth to hard bedrock	1.00 0.95	Very limited Depth to hard bedrock Slope	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 0.95
2F: Berks	90	Very limited Slope Depth to hard bedrock	1.00 0.95	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 0.95
3F: Berks	90	Very limited Slope Depth to hard bedrock	1.00 0.95	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 0.95
4B: Braddock	85	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00	Very limited Shrink-swell Slope	1.00 0.13
4C: Braddock	85	Very limited Shrink-swell Slope	1.00 0.37	Very limited Shrink-swell Slope	1.00 0.37	Very limited Shrink-swell Slope	1.00 1.00
4D: Braddock	85	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00
4E: Braddock	85	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00

5C:

# Table ENG-3. - Building Site Development - Continued

Giles County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
5C:							
Carbo	90	Very limited		Very limited		Very limited	
		Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
		Depth to hard bedrock	0.84	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.04	Slope	0.04	Depth to hard bedrock	0.84
Rock outcrop	5	Not Rated		Not Rated		Not Rated	
Wet spots	2	Not Rated		Not Rated		Not Rated	
5D:							
Carbo	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
		Depth to hard bedrock	0.84	Depth to hard bedrock	1.00	Depth to hard bedrock	0.84
Rock outcrop	5	Not Rated		Not Rated		Not Rated	
6F:							
Carbo	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
		Depth to hard bedrock	0.84	Depth to hard bedrock	1.00	Depth to hard bedrock	0.84
Rock outcrop	45	Not Rated		Not Rated		Not Rated	
7:							
Chagrin	90	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
Frequently flooded	5	Not Rated		Not Rated		Not Rated	
8:							
Chagrin variant	90	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
9:							
Chavies variant	90	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.82		
10B:							
Cotaco	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.39	Depth to saturated zone	1.00	Depth to saturated zone	0.39
						Slope	0.13
Seep areas	5	Not Rated		Not Rated		Not Rated	
10C:							

# Table ENG-3. - Building Site Development - Continued

Giles County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
10C:							
Cotaco	90	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.39	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.37	Slope	0.37	Depth to saturated zone	0.39
Seep areas	5	Not Rated		Not Rated		Not Rated	
11D:							
Faywood	90	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Shrink-swell	0.50	Slope	1.00	Shrink-swell	0.50
		Depth to hard bedrock	0.06	Shrink-swell	0.50	Depth to hard bedrock	0.06
11F:							
Faywood	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.50	Depth to hard bedrock	1.00	Shrink-swell	0.50
		Depth to hard bedrock	0.06	Shrink-swell	0.50	Depth to hard bedrock	0.06
12:							
Fluvaquents	80	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
Ponded soils	5	Not Rated		Not Rated		Not Rated	
13B:							
Frederick	90	Very limited		Very limited		Very limited	
		Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
						Slope	0.13
13C:							
Frederick	90	Very limited		Very limited		Very limited	
		Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
		Slope	0.37	Slope	0.37	Slope	1.00
13D:							
Frederick	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
13E:							
Frederick	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00

14B:

### Table ENG-3. - Building Site Development - Continued

Giles County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
14B: Frederick	90	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00	Very limited Shrink-swell Slope	1.00 0.13
14C: Frederick	90	Very limited Shrink-swell Slope	1.00 0.37	Very limited Shrink-swell Slope	1.00 0.37	Very limited Shrink-swell Slope	1.00 1.00
14D: Frederick	90	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00
14E: Frederick	90	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00
15C: Frederick	90	Very limited Shrink-swell Slope	1.00 0.37	Very limited Shrink-swell Slope	1.00 0.37	Very limited Shrink-swell Slope	1.00 1.00
15D: Frederick	90	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00
15E: Frederick	90	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00
16D: Frederick	70	Very limited Shrink-swell Slope	1.00 1.00	Very limited Shrink-swell Slope	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00
Rock outcrop	20	Not Rated		Not Rated		Not Rated	
16F: Frederick	70	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00	Very limited Slope Shrink-swell	1.00 1.00
Rock outcrop	20	Not Rated		Not Rated		Not Rated	

17C:

# Table ENG-3. - Building Site Development - Continued

Giles County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
17C: Gilpin	90	Somewhat limited Slope Shrink-swell	0.37  <0.01	Somewhat limited Slope Depth to soft bedrock	0.37  0.16	Very limited Slope Shrink-swell	1.00  <0.01
17D: Gilpin	90	Very limited Slope Shrink-swell	1.00  <0.01	Very limited Slope Depth to soft bedrock	1.00  0.16	Very limited Slope Shrink-swell	1.00  <0.01
17F: Gilpin	90	Very limited Slope Shrink-swell	1.00  <0.01	Very limited Slope Depth to soft bedrock	1.00  0.16	Very limited Slope Shrink-swell	1.00  <0.01
18D: Gilpin	90	Very limited Slope Shrink-swell	1.00  <0.01	Very limited Slope Depth to soft bedrock	1.00  0.16	Very limited Slope Shrink-swell	1.00  <0.01
18F: Gilpin	90	Very limited Slope Shrink-swell	1.00  <0.01	Very limited Slope Depth to soft bedrock	1.00  0.16	Very limited Slope Shrink-swell	1.00  <0.01
19C: Jefferson	90	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	Very limited Slope	1.00
20C: Jefferson	90	Not limited		Not limited		Very limited Slope	1.00
20E: Jefferson	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
21C: Jefferson	90	Not limited		Not limited		Very limited Slope	1.00
21E: Jefferson	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
21F: Jefferson	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
22D:							

# Table ENG-3. - Building Site Development - Continued

Giles County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
22D:							
Jefferson variant	60	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Drall	30	Very limited Slope Content of large stones	1.00 0.54	Very limited Slope Depth to hard bedrock Content of large stones	1.00 0.71 0.54	Very limited Slope Content of large stones	1.00 0.54
22F:							
Jefferson variant	60	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Drall	30	Very limited Slope Content of large stones	1.00 0.54	Very limited Slope Depth to hard bedrock Content of large stones	1.00 0.71 0.54	Very limited Slope Content of large stones	1.00 0.54
23F:							
Lehew	60	Very limited Slope Depth to hard bedrock	1.00 0.03	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 0.03
Wallen	30	Very limited Slope Depth to hard bedrock	1.00 0.35	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock	1.00 0.35
24C:							
Lily	85	Somewhat limited Depth to hard bedrock Shrink-swell	0.06 <0.01	Very limited Depth to hard bedrock	1.00	Very limited Slope Depth to hard bedrock Shrink-swell	1.00 0.06 <0.01
24D:							
Lily	85	Very limited Slope Depth to hard bedrock Shrink-swell	1.00 0.06 <0.01	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock Shrink-swell	1.00 0.06 <0.01
25F:							
Lily	85	Very limited Slope Depth to hard bedrock Shrink-swell	1.00 0.06 <0.01	Very limited Slope Depth to hard bedrock	1.00 1.00	Very limited Slope Depth to hard bedrock Shrink-swell	1.00 0.06 <0.01
26F:							

# Table ENG-3. - Building Site Development - Continued

Giles County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
26F:							
Lily	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.06	Depth to hard bedrock	1.00	Depth to hard bedrock	0.06
		Shrink-swell	<0.01			Shrink-swell	<0.01
27C:							
Lily	55	Somewhat limited		Very limited		Very limited	
		Depth to hard bedrock	0.06	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.04	Slope	0.04	Depth to hard bedrock	0.06
		Shrink-swell	<0.01			Shrink-swell	<0.01
Bailegap	35	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.04	Slope	0.04	Slope	1.00
		Content of large stones	0.03	Content of large stones	0.03	Content of large stones	0.03
				Depth to hard bedrock	0.01		
27E:							
Lily	70	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.06	Depth to hard bedrock	1.00	Depth to hard bedrock	0.06
		Shrink-swell	<0.01			Shrink-swell	<0.01
Bailegap	20	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Content of large stones	0.03	Content of large stones	0.03	Content of large stones	0.03
				Depth to hard bedrock	0.01		
27F:							
Lily	65	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.06	Depth to hard bedrock	1.00	Depth to hard bedrock	0.06
		Shrink-swell	<0.01			Shrink-swell	<0.01
Bailegap	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Content of large stones	0.03	Content of large stones	0.03	Content of large stones	0.03
				Depth to hard bedrock	0.01		
28E:							
Lily	55	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.06	Depth to hard bedrock	1.00	Depth to hard bedrock	0.06
		Shrink-swell	<0.01			Shrink-swell	<0.01

# Table ENG-3. - Building Site Development - Continued

Giles County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
28E:							
Bailegap	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Content of large stones	0.03	Content of large stones	0.03	Content of large stones	0.03
				Depth to hard bedrock	0.01		
29B:							
Nolichucky	90	Somewhat limited		Somewhat limited		Somewhat limited	
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
						Slope	0.13
29C:							
Nolichucky	90	Somewhat limited		Somewhat limited		Very limited	
		Shrink-swell	0.50	Shrink-swell	0.50	Slope	1.00
		Slope	0.37	Slope	0.37	Shrink-swell	0.50
29D:							
Nolichucky	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
30C:							
Nolichucky	90	Somewhat limited		Somewhat limited		Very limited	
		Shrink-swell	0.50	Shrink-swell	0.50	Slope	1.00
		Slope	0.37	Slope	0.37	Shrink-swell	0.50
30D:							
Nolichucky	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
30F:							
Nolichucky	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
31C:							
Poplimento	85	Somewhat limited		Somewhat limited		Very limited	
		Shrink-swell	0.78	Shrink-swell	0.78	Slope	1.00
		Slope	0.37	Slope	0.37	Shrink-swell	0.78
31D:							
Poplimento	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.78	Shrink-swell	0.78	Shrink-swell	0.78
31E:							



# Table ENG-3. - Building Site Development - Continued

Giles County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
31E:							
Poplimento	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.78	Shrink-swell	0.78	Shrink-swell	0.78
32F:							
Rock outcrop	65	Not Rated		Not Rated		Not Rated	
Berks							
	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.95	Depth to hard bedrock	1.00	Depth to hard bedrock	0.95
33D:							
Sequoia	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.94	Shrink-swell	0.94	Shrink-swell	0.94
				Depth to soft bedrock	0.29		
33F:							
Sequoia	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.94	Shrink-swell	0.94	Shrink-swell	0.94
				Depth to soft bedrock	0.29		
34:							
Slickens	90	Not Rated		Not Rated		Not Rated	
35B:							
Timberville variant	90	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Shrink-swell	0.22	Depth to saturated zone	0.96	Shrink-swell	0.22
				Shrink-swell	0.22	Slope	0.13
Frequently flooded	3	Not Rated		Not Rated		Not Rated	
35C:							
Timberville variant	90	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Slope	0.37	Depth to saturated zone	0.96	Slope	1.00
		Shrink-swell	0.22	Slope	0.37	Shrink-swell	0.22
ZZ900:							
Water	100	Not Rated		Not Rated		Not Rated	